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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/514,070	02/26/2000	Merrill A Biel	22272-14	8621
JOHN F. KLOS, ESQ. FULBRIGHT & JAWORSKI, L.L.P. 225 SOUTH SIXTH STREET #4850 MINNEAPOLIS, MN 55402-4320			EXAM	NER
			SHAY, DAVID	
			ART UNIT	PAPER NUMBER
			3739 DATE MAILED: 04/07/2003	M

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. Applicant(s)		
Office Action Summary	69/514,070	Biel	
Onice Action Summary	Examiner 1	Group Art Unit 3739	
—The MAILING DATE of this communication ap	pears on the cover shee	t beneath the correspondence address—	
Period for Reply	2		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SE OF THIS COMMUNICATION.	ET TO EXPIRE	MONTH(S) FROM THE MAILING DATE	
<ul> <li>Extensions of time may be available under the provisions of 37 C from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days</li> <li>If NO period for reply is specified above, such period shall, by de</li> <li>Failure to reply within the set or extended period for reply will, by</li> </ul>	, a reply within the statutory mi fault, expire SIX (6) MONTHS	inimum of thirty (30) days will be considered timely. from the mailing date of this communication	
Status			
Responsive to communication(s) filed on Folm	any 11, 2003	·	
☐ This action is FINAL.	<b>-</b>		
<ul> <li>Since this application is in condition for allowance ex accordance with the practice under Ex parte Quayle,</li> </ul>			
Disposition of Claims			
19 Claim(s) 50-53+55-57	is/are pending in the application.		
Of the above claim(s)	is/are withdrawn from consideration.		
□ Claim(s)	is/are allowed.		
©Claim(s) 50-538-55-59		is/are rejected.	
□ Claim(s)	is/are objected to.		
□ Claim(s)			
Application Papers		requirement.	
☐ See the attached Notice of Draftsperson's Patent Draftsperson's	awing Review, PTO-948.		
☐ The proposed drawing correction, filed on	is 🗆 approve	d 🗆 disapproved.	
☐ The drawing(s) filed on is/are o	bjected to by the Examine	er.	
☐ The specification is objected to by the Examiner.			
☐ The oath or declaration is objected to by the Examine	er.		
Priority under 35 U.S.C. § 119 (a)-(d)			
		(a) <sub>-</sub> (d)	
<ul> <li>□ Acknowledgment is made of a claim for foreign priori</li> <li>□ All □ Some* □ None of the CERTIFIED copie</li> <li>□ received.</li> </ul>	s of the priority documents	s have been	
☐ All ☐ Some* ☐ None of the CERTIFIED copie	s of the priority documents	s have been	
<ul> <li>□ All □ Some* □ None of the CERTIFIED copie</li> <li>□ received.</li> <li>□ received in Application No. (Series Code/Serial No.)</li> </ul>	s of the priority documents umber) e International Bureau (PC	s have been  T Rule 1 7.2(a)).	
<ul> <li>□ All □ Some* □ None of the CERTIFIED copie</li> <li>□ received.</li> <li>□ received in Application No. (Series Code/Serial Note in this national stage application from the</li> </ul>	s of the priority documents umber) e International Bureau (PC	s have been  T Rule 1 7.2(a)).	
<ul> <li>□ All □ Some* □ None of the CERTIFIED copie</li> <li>□ received.</li> <li>□ received in Application No. (Series Code/Serial Note in the interest of the certified copies not received:</li> </ul>	s of the priority documents umber) e International Bureau (PC	s have been  T Rule 1 7.2(a)).	
□ All □ Some* □ None of the CERTIFIED copie □ received. □ received in Application No. (Series Code/Serial Note of the Certified copies not received:  *Certified copies not received:  Attachment(s)	s of the priority documents umber) e International Bureau (PC	S have been  T Rule 1 7.2(a)).	

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

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The amendment after final filed February 11, 2003 has been entered.

Claims 50-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lai et al in combination with Singer et al. Lai et al teach a method of cellular disruption as claimed except for the specific concentration of SDS (column 6, line 36 to column 19, lines 67). Singer et al teach that at concentrations of SDS below that at which produces complete cell lysis occurs, cell permeability is greatly increased. It would have been obvious to the artisan of ordinary skill to employ an SDS concentration as claimed, since Singer et al give no minimum concentration below which the "cell permeability is greatly increased" as this happens at any concentration below that at which cell lysis occurs, as taught by Singer et al, and since this would reduce the extent to which non-cancerous cells are affected.

Claims 55 and 57-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swartz et al in combination with Asculai et al, Singer et al, and Williams et al. Swartz et al teaches method such as claimed except the use of a surfactant (please note the absence of teaching of the use of a surfactant necessarily includes the absence of limitations predicated on the use of a surfactant e.g. the use of a particular concentration of surfactant) and gives few particulars regarding light application. Asculai et al teach the usefulness of surfactants for inactivating viruses. Singer et al teach that SDS permiabilizes membranes greatly at concentrations below that at which total lysis occurs. Williams et al teach controlling gel properties through the use of surfactants. It would have been obvious to the artisan of ordinary skill to employ a surfactant in the method of Swartz et al since this would help inactivate the viruses, as taught by Asculai at al as well as to control gel properties, as taught by Williams et al;

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to use the claimed concentrations, since there will permiabilize the membranes by attacking the

lipids therein, as taught by Singer et al, thus producing a method such as claimed.

Claim 56 is rejected under 35 U.S.C. 103(a) as being unpatentable over Swartz et al in

combination with Asculai et al, Singer et al and William et al as applied to claims 55 and 57-59

above, and further in view of Lai et al. Lai et al teach light dosages and dosage rates as claimed

for activating a surfactant/photosensitizer mixture. It would have been obvious to the artisan of

ordinary skill to employ the dosage and dosage rate as taught by Lai et al, since these will

activate the photosensitizer and since Swartz et al supply no particular dosages or dosage rates,

thus producing a method such as claimed.

Applicant's arguments with respect to claims 50-54 and 55-59 are have been considered

but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication should be directed to David Shay at

telephone number 703-308-2215.

Shay/Dl

March 21, 2003

DAVID M. SHAY PRIMARY EXAMINES

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